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U.S. Department of Commerce, Paten, and Trademark Office					Atty Docket No. M-10685-1C US			Application No. 09/778,245		
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50	J)	Jse several sheets if	necessary)		Shing Lee et al.			9085		
2 2 2003						Filing Date				
7. L. 1905 - SJ					February 6, 2001			2877		
RADEMARIE			U.S.	Patent Documents						
*Examiner Initial		Document Number	Date	Name		Class	Subclass		Date It	
HP'	-A1	4,039,370	8/1977	Kleinknecht						
HP	A2	4,141,780	2/1979	Kleinknecht et a	al.					
N	A3	`4,200,396	4/1980	Kleinknecht et a	al.					
1	A4	4,303,341	12/1981	Kleinknecht et al.						
	A5	. 4,330,213	5/1982	Kleinknecht et al.					-	
	A6	4,408,884	10/1983	Kleinknecht et	al.					
	A7	4,710,642	12/1987	McNeil						
	A8	4,790,659	12/1988	Erman et al.						
1	A9	4,905,170	2/1990	Forouhi et al.						
4	A10	. 5,164,790	11/1992	McNeil et al.						
INP	A11	5,241,369	8/1993	McNeil et al.						
120	A12	1 5,329,357	7/1994	Bernoux et al.		-				
<i>\fi</i>			Foreig	n Patent Document	ts					
								Trans	slation	
		Document	Date	Country	,	Class	Subclass	Yes	No	

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				1/1/	ne					
			٠							
	1	OTHER A	RT (Including	Author, Title, Date	, Pertinen	t Pages, Et	tc.)			
170	C1			for Process Contro 701. 12, No. 3, Marc				meter Feati	ıres," N	
HP.	C2			Amorphous Semic , No. 10, Novembe				trics," A.R.	Forou	
H8	C3	"Optical Propertie B, Vol. 38, No. 3,		Semiconductors ar op. 1865-1873	nd Dielect	rics," A.R	. Forouhi et al	., Physical	Revien	
xaminer	1/2	Me_	Date Consider	ed 3/	6/0	3				
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U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.			Application No.	
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s)			Confirmation No	
(Use several sheets if necessary)					Shing L	ee et al.	9085		
2 2003					Filing Date			Group	
<u> </u>					February 6, 2001			2877	
RADEMAR			U.S.	Patent Documents	3				
*Examiner Initial		Document Number	Date	. Name		Class	Subclass		Date 1s
HP	A13	5,381,233	1/1995	Chao et al.		, -		1	
Hr	A14	5,416,594	5/1995	Gross et al.					
MP	A15	5,607,800	3/1997	Ziger					
IAR	A16	5,739,909	4/1998	Blayo et al.					
mo	A17	5,757,671	5/1998	Drevillon et al.					
APP.	A18	5,835,221	11/1998	Lee et al.					
MP	A19	5,867,276	2/1999	McNeil et al.			\		
Ho	A20	5,923,423	7/1999	Sawatari et al.					
AP	A21	5,956,148	9/1999	Celii				:	
AP	A22	5,963,329	10/1999	Conrad et al.	1		1		·
18	A23	6,031,615	2/2000	Meeks et al.	,		- :\		
			Foreig	n Patent Documen	its		,		
								Trans	lation
		Document	Date	Country	y	Class	Subclass	Yes	No
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					,				
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		OTHER A	PT (Including	Author, Title, Date	Dorting	+ Dagge F	to.)		[
	C4		 					" I I :	l
MP	C4	"Convergence of the Coupled-Wave Method for Metallic Lamellar Diffraction Gratings," L. Li et al., Journal of the Optical Society of America A, Vol. 10, No. 6, June 1993, pp. 1184-1188							
MP MP	C5	"Multi-layer Modal Method for Diffraction Gratings of Arbitrary Profile, Depth, and Permitivity," L. Li, Journal of the Optical Society of America A, Vol. 10, No. 12, December 1993, pp. 2581-2591							
no	C6	"Optical Characte Technology, Augu		orphous and Polycr	ystalline S	Silicon Fili	ns," E. Ibok et	al., Solid S	State
	<u>' </u>	The.	Date Consider	red 7 /	(100				
Examiner	100	1 w	Dute Consider	<u> </u>	5/03				

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								She
U.S. Department of Commerce, Patent and Trademark Office					Atty Docket N	Application No.		
					M-10685-1C	JS	09/778,24	5
	ATION I	DISCLOSURE STA	Applicant(s)	Confirmation N				
E	J)	Jse several sheets if	necessary)		Shing Lee et a	l.	9085	
					Filing Date	Filing Date		
2 2 2003					February 6, 20	2877		
TA OF WART			U.S.	Patent Documents				
RADEMINET Examiner Initial		Document Number	Date	Name	Clas	s Subclass	Filing Appro	
M	A24	6,118,525	9/2000	Fossey et al.			•	
~~~~	A25	_6,323,946 B1	11/2001	Norton				
WP	A26	6,483,580	11/2002	Xu et al.	-		-	
MP	A27	09/833,084	4/10/01	Abdulhalim et a	1.			
HP	A28	09/742,029	12/20/00	Zhao et al.			-	
108	A29	09/741,663	12/19/00	Shchegrov et al.				
AP	A30	09/639,495	8/14/00	Nikoonahad et a	ıl.			***
IN	A31	09/697,025	10/26/00	Nikoonahad et a	ıl.			
m	A32	09/671,715	9/27/00	Fabrikant et al.				
			Foreig	n Patent Document	s			
							Trans	latior
		Document	Date	Country	Clas	s Subclass	Yes	N
<del></del>				MA	no.			
		OTHER A	DT (Including	Austhan Title Date	Dontinent Decre			
	C7		· · · · · · · · · · · · · · · · · · ·	Author, Title, Date, otoresist Gratings U		· · · · · · · · · · · · · · · · · · ·	I Paymond	ot al
	0			4, Jul/Aug 1995, p		atterometry, C.J	. Kaymond (	zi ai.,
MO								
18P	C8	"Linesize Effects of 1997, pp. 243,-250		eflectance Spectra,	" D.H. Ziger et	al., Opt. Eng., Vo	ol. 36, No. 1,	Janu
NAP NAP	C8	1997, pp. 243,-250	s of Lamellar D	Diffraction Gratings				

									Sheet 4			
U.S. Department of Commerce, Patent and Trademark Office					Atty Docket No.			Application No.				
					M-10685-1C US			09/778,245				
INFORMATION DISCLOSURE STATEMENT BY APPLICANT					Applicant(s)			Confirmation No.				
PE	J)	Jse several sheets is	f necessary)		Shing Lee et al.			9085				
sc7					Filing Date			Group				
2 2 2003 3		•			February 6, 2001			2877				
\$		U.S. Patent Documents										
TRAE Manner		Document	Date	Name	Class Subclass				Filing Date If Appropriate			
Initial		Number	Date		me	Class	Subclass	Appro	priate			
Foreign Patent Documents												
1								Trans	lation			
		Document	Date	Country		Class	Subclass	Yes	No			
		200	24.0	00 10	re	-	54551455	100	110			
	<u> </u>	OTHER A	I ART (Including A	uthor, Title, Date.	Pertinen	t Pages, Et	tc.)					
	OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)  C10 "A Broadband UV Small Spot Spectroscopic Ellipsometer," T.R. Corle, SPIE Microlithography, 1995,											
128		pp. 1-12.										
AP	C11	"Rigorous Coupled-Wave Analysis of Planar-Grating Diffraction," M.G. Moharam et al., J. Opt. Soc. Am., Vol. 71, No. 7, July 1981, pp. 881-818.										
AS	C12	"Scatterometry and the Simulation of Diffraction-Based Metrology," S. Sohail et al., <i>Microlithography World</i> , Jul/Aug/Sep 1993, pp. 5-16										
100	C13	"Analysis and Applications of Optical Diffraction by Gratings," T.K. Gaylord et al., <i>Proceedings of the IEEE</i> , Vol. 73, No. 5, May 1985, pp. 894-937.										
MP	C14	"Stable Implementation of the Rigorous Coupled-Wave Analysis for Surface-Relief Gratings: Enhanced Transmittance Matrix Approach," M.G. Moharam et al., J. Opt. Soc. Am. A, Vol. 12, No. 5, May 1995, pp. 1077-1086.										
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									1,			
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Examiner	<del></del>	7/h.	Data Carrail	1 -	11 10	0	<del></del>					
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